

APPENDIX G

Implemented Reasonably Available Control Measures

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Updated 2/11/02

AGENCY	SIP RACM	1994	1995	1996	1997	1998	1999	2000	2001
City of Yuma	Paving unpaved roads ⁱ			Paved 1.82 miles	Paved 0.872 miles	Paved 0.246 miles	Paved 0.246 miles	Paved 5.74 miles ⁱⁱ	Paved 1.73 miles ⁱⁱⁱ
					Paved 2.17 miles ^{iv}	Paved 1.75 miles ^v	Paved 1.61 miles ^{vi}		Paved 1 mile ^{vii}
									Paved 0.25 miles ^{viii}
	Closing unpaved roads	Closed 0.62 miles				Closed 0.15 miles	Closed 0.15 miles		
	Chemically stabilize unpaved roads	Chemical palliative - 0.11 miles	Watered streets - 390 miles						5,532 linear feet of 24' wide street surface
	Pave parking lots			Paved 90,000 sq. ft. of gravel parking lots	Paved 111,250 sq. ft. of gravel parking lot				
City of Yuma	Traffic re-routing or rapid cleanup of temporary sources of dust and								

AGENCY	SIP RACM	1994	1995	1996	1997	1998	1999	2000	2001
	spills								
	Covering haul trucks	Yuma City Ordinance 2638							
	Dust control plans for construction projects	Ordinance requiring dust control plans							
	Soil stabilization	Require soil stabilization on lot cleanup program							
	Building code amds	Building code amendments		Modified building code to require dust control plans for large construction projects					
			Watered street shoulders - 1,820 miles ^{ix}						5,436 linear feet of 8' wide street shoulder
		Swept 183 miles of city roads ^x				Increased street sweeping to 1,183 miles			
City of Yuma							Installed 1.61 miles of gutter and sidewalks ^{xi}	Installed 0.63 miles of curb and sidewalks ^{xii}	Installed 9.89 miles of sidewalks, curbs, gutters and raised median with decomposed granite ground cover ^{xiii}
									Installed 6.25

AGENCY	SIP RACM	1994	1995	1996	1997	1998	1999	2000	2001
									miles of sidewalks ^{xiv}
								Landscaped 5.74 miles of median ^{xv}	
						Burn permits issued for 20.5 acres (brush, weeds)	Burn permits issued for 220.0 acres (weeds, tree trimmings, plants, plant material)	Burn permits issued for 63.5 acres (citrus trees)	Burn permits issued for 171 acres (citrus trees)
Town of Somerton	Paving unpaved roads	Paved 0.25 miles					Paved 1.77 miles		
		Annually paved average of 0.83 miles of alley ^{xvi}		Paved 0.1 miles of alley	Annually paved average of 0.83 miles of alley				
Town of Somerton	Traffic re-routing or rapid cleanup of temporary sources of dust and spills	Developed written policy for street cleanup and re-routing							
	Covering haul trucks	Somerton Resolution 405							
	Dust control plans for construction	Implemented on a continual basis							

AGENCY	SIP RACM	1994	1995	1996	1997	1998	1999	2000	2001
	projects								
	Soil stabilization				Graveled 83,400 sq. ft. dirt parking lot ^{xvii}				
			Watered unpaved roads - 1,350 miles	Annually watered unpaved roads - 1,560 miles				Annually watered unpaved roads - 499.75 miles	
			Annually watered street shoulders -1,820 miles						
			Annually swept 3,238 miles of paved roads					Annually swept 1,211.5 miles of paved roads	
							Reconstruc- ted 13,267 sq. yds. parking area		
Town of Somerton					Recon- structed curbs and gutters - 0.2 miles ^{xviii}	Recon- structed curbs and gutters - 0.34 miles			
Yuma County	Paving unpaved roads	Paved 15 miles	Chip sealed 9.5 miles of gravel roads	Applied lignosite and chip seal to 5 miles	Chip sealed 5.7 miles		Paved 15 miles		Paved 0.75 miles of road Chipsealed 0.75 miles of road

AGENCY	SIP RACM	1994	1995	1996	1997	1998	1999	2000	2001
	Stabilizing unpaved roads		Stabilized unpaved roads - 5.3 milesa	Stabilized unpaved roads - 36.75 miles with mag chloride	Stabilized unpaved roads - 43 miles with mag chloride	Annually stabilized unpaved roads - 86 miles with magnesium chloride		Stabilized unpaved roads - 56.2 miles with magnesium chloride in May and October	
	Traffic re-routing or rapid cleanup of temporary sources of dust and spills	Implemented on a continual basis							
	Covering haul trucks	Yuma County Resolution No. 91-38							
	Dust control plans for construction projects ^{xix}	Implemented on a continual basis							
Yuma County					Annually swept streets - 3,238 miles			Street sweeping - 100 miles ^{xx}	Street sweeping - 200 miles
			Watered alleys - 24 miles						Constructed 4,515 linear feet of 16' wide alleyway
						Applied chip seal to 21.5 miles of			

AGENCY	SIP RACM	1994	1995	1996	1997	1998	1999	2000	2001
						unpaved road shoulders			
Irrigation Districts: Yuma County Water User's Assoc. Yuma Mesa Irrigation District Unit B Irrigation District Yuma Irrigation District North Gila Irrigation District	Reduced traffic on unpaved roads	Reduced use of heavy equipment on canal banks by introducing weedeating white amur fish ^{xxi}	Restocked white amur fish in 1995 ^{xxii}	Restocked 8,420 white amur fish	Annually restocked 8,400 white amur				
					Added signs and barricades	Maintained signs and barricades	Added 50 new "no trespassing" signs	Annually maintained 350 "no trespassing" signs and 50 barricades	
			Closed 1.2 miles of canal road	Patrolled 400 miles of unpaved canal banks			Closed 2.4 miles of canal roads	Patrolled and watered 400 miles of unpaved canal roads	
			Pipelined 7/8 mile of canal	Pipelined 0.5 miles of canal	Pipelined 0.64 miles of canal		Pipelined 4 miles of canal	Pipelined 2 miles of canals	
ADOT		ADOT requires contractor to adhere to local dust control plans							

J:\AQD\PLANNING\SIPs\pm10\Yuma\yuma maintenance plan\Localgovernmentannualreportabl111201.wpd
2/11/02

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- i. Information for the City of Yuma provided by the Yuma Metropolitan Planning Organization.
 - ii. Paving occurred on the United States Bureau of Reclamation (USBR) East Main Canal between 22nd St. and 8th St.
 - iii. Paving occurred on the USBR Colorado Levee.

-
- iv. Paving occurred on 24th Ave.
 - v. Paving occurred on 12th St. between Aves. B and C.
 - vi. Paving occurred on the USBR Main & East Canal between 8th St. and Colorado River Levee.
 - vii. Paving occurred along Avenue C between 16th and 24th Streets.
 - viii. Paved 6.25 miles of Bonanza Ave.
 - ix. Information for the City of Yuma provided by the Yuma Metropolitan Planning Organization.
 - x. Street sweeping occurred a minimum of once a week for arterials and selected collector streets and five times per year for all other paved streets.
 - xi. Along 24th Ave.
 - xii. Along 12th St. between Aves. B and C.
 - xiii. These improvements occurred along Ave. C between 16th and 24th Streets.
 - xiv. Along Bonanza Ave.

 - xv. Along 12th Street.
.
 - xvi. Information from the Town of Somerton Public Works Dept.
 - xvii. Information for this RACM provided by the Yuma Metropolitan Planning Organization.
 - xviii. Information for the Town of Somerton provided by the Yuma Metropolitan Planning Organization.
 - xix. The contractor shall apply a dust palliative to those areas causing dust as a result of the construction operation or traffic. Frequency shall be enough to eliminate all dust from the project. The contractor shall apply palliative when directed by the County Engineer.

xx. Staff with the Yuma County Public Works Dept. explained that the significant decrease in the number of miles of city roads swept from 1999 to 2000 was attributable to a decrease in funding and in staffing. This was also the reason for only 200 miles of city roads swept in 2001.

xxi. The introduction of white amur into the Yuma area canals result in indirect PM₁₀ emissions reductions by reducing the need to run heavy equipment on the canal banks to dredge the canal. The effectiveness of this measure was modeled in the “reduce traffic on unpaved roads” control measure (see Table 6.0, p. 48, 1991 Yuma PM₁₀ SIP).

xxii. Information for this RACM provided by the Yuma Metropolitan Planning Organization.

**Data on New Haul Roads, Parking Lots, and Staging Areas
In the Yuma PM₁₀ Nonattainment Area**

Control Measure	Yuma	Somerton	Yuma County	Date of Implementation	Comments
Zoning requirement for all new haul roads to be paved			No	****	Not required at this time, may be considered in future ordinances.
Zoning requirement for all new haul roads to be chemically stabilized			No	****	Not required at this time, may be considered in future ordinances.
Zoning requirement for all new parking lots to be paved			Yes	October 1997	§ 906.00 part A of Planning and Zoning Ordinance specifies requirements.
Zoning requirement for all new parking lots to be chemically stabilized			Yes	October 1997	§ 906.00 part B of Planning and Zoning Ordinance specifies requirements.
Zoning requirement for all new staging areas to be paved			No	****	Not required at this time, may be considered in future ordinances.
Zoning requirement for all new staging areas to be chemically stabilized			No	****	Not required at this time, may be considered in future ordinances.

- The contact for the City of Yuma is Ibrahim Osman at (928) 373-4531.
- The contact for the City of Somerton is Eddie Mendez at (928) 627-4115.
- The contact for Yuma County is Luis Miranda at (928) 329-2300.

DATA FOR YUMA COUNTY

Control Measure	1991	1992	1993	1994	1995	1996	1997
Number and length (in miles) of all new haul roads paved	FY 91/92- 11.0 mi	FY 92/93- 8.5 mi	FY 93/94- 9.5 mi	FY 94/95- 10.75 mi	FY 95/96- 6.5 mi	FY 96/97- 4.0 mi	FY 97/98- 8.20 mi
Number and length (in miles) of all new haul roads chemically stabilized	MgCL2- 5.26 mi	MgCL2- Approx - 40 mi	MgCL2- Approx - 40 mi	MgCL2- Approx - 40 mi	MgCL2- Approx - 40 mi	MgCL2- Approx - 40 mi	MgCL2- Approx - 40 mi
Number and area (sq. ft.) of all new parking lots paved	INA	INA	INA	INA	INA	INA	INA
Number and area (sq. ft.) of all new parking lots chemically stabilized	INA	INA	INA	INA	INA	INA	INA
Number and area (sq. ft.) of all new staging areas paved	INA	INA	INA	INA	INA	INA	INA
Number and area (sq. ft.) of all new staging areas chemically stabilized	INA	INA	INA	INA	INA	INA	INA

INA-Information Not Available

Control Measure	1998	1999	2000	2001	2002	2003	2004
Number and length (in miles) of all new haul roads paved	FY 97/98- 8.2 mi	FY 98/99- 23 mi	FY 99/00- 1.0 mi	No Gravel Roads Paved	No Gravel Roads Paved	FY 03/05- 1.0 mi	FY 03/05- 1.0 mi
Number and length (in miles) of all new haul roads chemically stabilized	MgCL2- 86 mi	MgCL2- 15 mi	FY 01/02 MgCL2 61.6 mi	FY 02/03 MgCL2 61.6 mi	FY 02/03 MgCL2 61.6 mi	FY 03/04 MgCL2- 56.7 mi	FY 04/05 MgCL2- 60.1 mi
Number and area (sq. ft.) of all new parking lots paved	INA	INA	INA	INA	INA	INA	INA
Number and area (sq. ft.) of all new parking lots chemically stabilized	INA	INA	INA	INA	INA	INA	INA
Number and area (sq. ft.) of all new staging areas paved	INA	INA	INA	INA	INA	INA	INA
Number and area (sq. ft.) of all new staging areas chemically stabilized	INA	INA	INA	INA	INA	INA	INA

INA-Information Not Available

From: "Eddie Mendez" <EddieM@cityofsomerton.com>
To: <Martin.marvin@azdeq.gov>
Date: 5/31/2006 11:01:08 AM
Subject: FW: Street Sweeper Maintenance Cost and Miles Swept

Marvin,

Here is some information for the subject project.

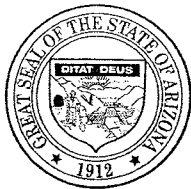
Year	Miles Swept
1998	2,647
1999	1,209
2000	1,376
2001	3,286
2002	2,888
2003	2,662
2004	2,548
2005	2,918
2006	755 Through April

Also, we have full-time Street Sweeper Operator @ a salary of \$36,157 annually. In addition, the approximate maintenance cost from 2003 to 2006 is \$3,698 for labor and \$12,709 for parts.

Should you have any questions, please call me at (928) 627-4115.

Regards,

Eddie



Janet Napolitano
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • azdeq.gov



Stephen A. Owens
Director

05 APR 32 AM 11:16

ADEQ
AIR QUALITY DIVISION

April 22, 2005

Mr. Curt Foster, Fire Marshall
Yuma Rural Metro Fire Department
660 East 18th Place
Yuma, Arizona 85365

Subject: Yuma Rural Metro Fire Department (Rural Metro) Reasonably Available Control Measures (RACMs) Implemented 1991 Through 1999 and 2002 Through 2004

Dear Mr. Foster:

Please find enclosed reporting forms for RACMs implemented by Rural Metro in the Yuma Nonattainment Area. The forms contain the RACMs that were identified in the 1991 State Implementation Plan (SIP) and the 1994 update to the SIP. We are trying to identify the RACMs that were implemented by Rural Metro from 1991 through 1999 and from 2002 through 2004 and verify that they are still in effect. We already have information on the control measures that were implemented in 2000 and 2001. We need quantitative, staffing, and funding information on these measures. We would like this information by Wednesday, April 27, 2005, if at all possible.

Thank you for your assistance and for ensuring dust control measures are being implemented by Rural Metro to help improve the region's air quality. If you have any questions, I can be reached at 1-800-234-5677 ext. 771-4417.

Sincerely,

Andra Juniel, Planner II
Planning Section

Enclosures (3)

cc: ALJ:MBL

Northern Regional Office
1515 East Cedar Avenue • Suite F • Flagstaff, AZ 86004
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733



Rural/Metro Fire Department

FAX COVER SHEET

TO: ANDREA

Fax #: 1-602-771-2364

Pages: 2

FROM: CURT

Fax #: 1-928-783-8961

Phone #: 1-928-782-4757 x122

Date: 5/15/06

Notes: _____

Yuma Co.
BURN PERMITS

Started 05/05/98

128912

Year	1998	1999	2000	2001	2002	2003	2004	2005
Permits Issued	309	371	420	517	651	593	713	791
Extra Permits	30	46	39	26	30	36	17	15
Total	339	417	459	543	681	629	730	806

Year	1998	1999	2000	2001	2002	2003	2004	2005
Acres		0	0	0	8502.75	8232.25	7493.5	6391
Extra Acres	300	600	450	200	220	310	300	0
Total	300	600	450	200	8722.75	8542.25	7793.5	6391



Rural/Metro Fire Department

FAX COVER SHEET

TO: ANDREA

Fax #: 1-602-771-2366

Pages: 2

FROM: CURT

Fax #: 1-928-783-8961

Phone #: 1-928-782-4757 x122

Date: 5/15/06

Notes: _____

From: "Scott McArthur" <OAQ/SM2>
To: ALJ, ddb, smv, dgc
Date: Fri, 10 Jan 1997 13:15:17
Subject: Permitted Burn Acreage for Yuma
X-mailer: Pegasus Mail v3.22
X-PMFLAGS: 128

Andra,

Here's some of the data you requested:

Permitted Burn Acreages for Yuma County -
1994 3447 acres
1995 6469 acres
1996 6464 acres

We don't have the permits going back to '91, so I can't get the numbers from those years. Maybe Dan Catlin has this data somewhere, but he won't be back in until Monday.

Do you need the pre-'94 years data?

Scott

[illegible]

[illegible]



DEPARTMENT OF THE ARMY

UNITED STATES ARMY YUMA PROVING GROUND
YUMA, ARIZONA 85365

REPLY TO
ATTENTION OF

January 10, 2002

02 JAN 14 PM 12:36

Environmental Sciences

Mr. Andra Juniel
Arizona Department of Environmental Quality
Air Quality Planning Section
3003 North Central Avenue
Phoenix, Arizona 85012

Dear Mr. Juniel:

This letter is in regard to Arizona Department of Environmental Quality (ADEQ) requests for data on Reasonably Achievable Control Measures (RACM) for the Yuma County PM₁₀ non-attainment area, State Implementation Plan (SIP) for 1999 to present.

SIP RACM	Control Measure	Total Area
Stabilization of unpaved roads	Grading and Watering of roads	Approximately 53.3 million square feet of surface, from the repeated treatment of 11.7 million square feet of surface.

This RACM maintenance has been performed repeatedly from 1997 to present and is the roads listed in your correspondence dated March 27, 1996. YPG will continue to implement current RACMs and explore new control measures.

The aircraft take-off and landing data you requested for CY 1999 is broken down as follows: Heavy Aircraft: 2192, Light Aircraft: 4986, Helicopters: 12714. These numbers do not represent closed field operations.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
UNITED STATES ARMY GARRISON YUMA
301 C. Street
YUMA, ARIZONA 85365-9498

ADEQ
AIR QUALITY DIVISION

05 MAY -6 PM 12: 22

May 5, 2005

Environmental Sciences Directorate

Mr. Andra Juniel
Arizona Department of Environmental Quality
Planning Section
1110 West Washington Street
Phoenix, AZ 85007

Dear Mr. Juniel:

The U.S. Army Yuma Proving Ground (YPG) continues to undertake efforts to reduce airborne dust emissions. In accordance with the Yuma PM₁₀ Nonattainment Area State Implementation Plan YPG has implemented several Reasonably Available Control Measures (RACM), the enclosed form details the RACMs implemented by YPG and summarizes YPG's efforts in reducing airborne dust emissions.

If you need any additional information from YPG, please feel free to contact Mr. Charles F. Ruerup Jr., Environmental Compliance Engineer at (928) 328-2977.

Sincerely,

Charles Botdorf
Director, Environmental Sciences

Enclosures

U. S. Army Yuma Proving Grounds

Reasonably Available Control Measures

1991- 1994

AGENCY	SIP RACM	1991	1992	1993	1994	Funding (91-94)	Staffing Levels/ Personnel	COMENTS
Yuma Proving Grounds	Area (approximate sq.ft.) of ground where dust was controlled on open land.	NA	3,295,176 ft ²	1,973,700 ft ²	759,042 ft ²	\$ 840,800	Total accumulative hours are equivalent to 3 personnel per year.	Dust control measures include the use of compacted ABC, asphalt, and watering.
	Number of miles of unpaved roads chemically stabilized.	NA	NA	NA	NA	NA	Total accumulative hours are equivalent to 3 personnel per year.	None

NA = Not Available

U. S. Army Yuma Proving Grounds

Reasonably Available Control Measures

1991- 1994

AGENCY	SIP RACM	1991	1992	1993	1994	Funding (91-94)	Staffing Levels/ Personnel	COMENTS
Yuma Proving Grounds	Area (approximate sq.ft.) of ground where dust was controlled on open land.	NA	3,295,176 ft ²	1,973,700 ft ²	759,042 ft ²	\$ 840,800	Total accumulative hours are equivalent to 3 personnel per year.	Dust control measures include the use of compacted ABC, asphalt, and watering.
	Number of miles of unpaved roads chemically stabilized.	NA	NA	NA	NA	NA	Total accumulative hours are equivalent to 3 personnel per year.	None

NA = Not Available

U.S. Army Yuma Proving Grounds

Reasonably Available Control Measures

1995- 1999

AGENCY	SIP RACM	1995	1996	1997	1998	1999	Funding (95-99)	Staffing Levels/ Personnel	COMENTS
Yuma Proving Grounds	Area (approximate sq.ft.) of ground where dust was controlled on open land.	3,690,965 ft ²	3,522,880 ft ²	11,668,800 ft ²	3,409,028 ft ² Note 1	3,409,028 ft ² Note 1	\$ 1,305,946	Total accumulative hours are equivalent to 3 personnel per year	Dust control measures include the use of compacted ABC, asphalt, and watering.
	Number of miles of unpaved roads chemically stabilized.	NA	NA	40,000 ft ²	NA	NA	\$ 131,000	Total accumulative hours are equivalent to 3 personnel per year.	None

NA = Not Available

Note 1 = No specific data on record; Median value for 1992-1997 data used.

Fax Transmittal

Yuma County Water Users' Association

Mailing Address:
Post Office Box 5775
Yuma, Arizona 85366-5775

Office: (520) 627-8824
Fax: (520) 627-3065

Shipping Address:
3800 W. County 15th Street
Somerton, Arizona 85360

DATE: NOV. 16, 2001 TIME: _____ PAGE 1 OF 2

TO: ANDRA JUNIEL
ADEB

FAX NO: (602) 207-2366

P.O. #: _____

FROM: RAGER MCGRANE

COMMENTS/INSTRUCTIONS/NOTES:

IF THIS FAX IS NOT RECEIVED IN ITS ENTIRETY, PLEASE CONTACT US AT
1-520-627-8824.

X Original will not follow

Original will follow via:

 Regular Mail
 Hand Delivery
 Other

Irrigation Districts: Yuma County Water User's Assoc. Yuma Mesa Irrigation District Unit B Irrigation District Yuma Irrigation District North Gila Irrigation District	Reduced traffic on unpaved roads	Reduced use of heavy equipment on canal banks by introducing weed-eating fish	Restocked white amur in 1995*	Restocked 8,420 white amur fish*	Added signs and barricades*	RESTOCKED 8400+ WHITE AMUR MAINTAINED 350 SIGNS & 50 BARRICADES	RESTOCKED 8400+ WHITE AMUR ADDED 50 "NO TRESPASSING" SIGNS	RESTOCKED 8400+ WHITE AMUR MAINTAINED 350 "NO TRESPASSING" SIGNS & 50 BARRICADES	RESTOCKED 8400+ WHITE AMUR
			Closed 1.2 miles of canal road*	Patrolled 400 miles of unpaved canal banks*			Closed 2.4 miles of canal roads*	PATROLLED & WATERED 400 MILES OF UNPAVED CANAL ROADS	PATROLLED & WATERED 400 MILES OF UNPAVED CANAL ROADS
			Pipelined 7/8 mile of canal*	Pipelined 6.5 miles of canal*	Pipelined 10.64 miles of canal*		Pipelined 4 miles of canal*	PIPELINED 2 MILES OF CANALS 4 MILES OF PAVED BIKEPATHS	
YMPO							Provide VMT estimates by road type/traffic volumes/fleet mix for unpaved roads		



United States Department of the Interior

BUREAU OF RECLAMATION

Yuma Area Office

7301 Calle Agua Salada

Yuma, Arizona 85364

AIR QUALITY DIVISION

05 MAY 23 AM 11:37



IN REPLY REFER TO:

YAO-7220

ENV-1.10

MAY 19 2005

Mr. Andra Juniel
Arizona Department of
Environmental Quality
1110 West Washington St.
Phoenix, AZ 85007

Subject: Reasonably Available Control Measures Implemented

Dear Mr. Juniel:

This letter is in response to your letter of April 22, 2003, requesting information regarding the subject issue.

In 2003, Reclamation records show that a total of 419 miles of road were maintained but we have no records that would specify how many of those miles were graveled. That figure more likely represents the miles of road that were bladed, that is, leveled smooth with a road grader and watered.

In 2004, a total of 478 miles were similarly maintained. Those are the only two years for which data specific to the miles of road maintained are available. For the years 1991 to 2002, you might consider using an average of the figures for 2003 and 2004.

As for hours and staffing, approximately \$54,400 was expended in labor hours for road maintenance in 2003 and \$62,140 in 2004. As for the years 1991 to 2002, again, you could arrive at an approximate figure by averaging the totals for the years 2003 and 2004.

Reclamation's point of contact for this issue is Mr. Ron Curiel
at 928-343-8151.

Sincerely,

A handwritten signature in cursive script that reads "Cynthia Hoeft". The signature is written in dark ink and is positioned above the printed name and title.

Cynthia Hoeft, Director
Resource Management Office